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Lathe Attachment for Turning Cross-head Pins.

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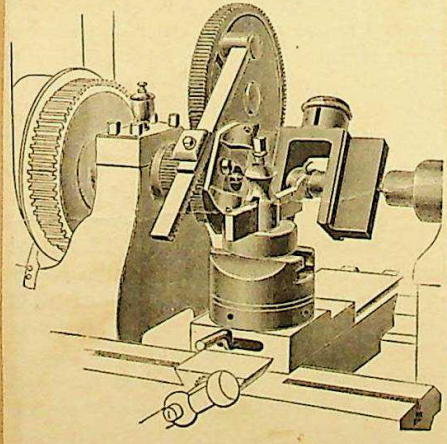
The device, which we illustrate herewith, appears to be well calculated to do a kind of work, the doing of which is generally little better than drudgery. It is an attachment that can be applied to any lathe of ordinary make, and used for turning crosshead pins, not only saving much of the time usually required for such work, but doing the work in a superior manner. The attachment is the invention of B. J. Coates, and is made by the Bay State Iron Works, Erie, Pa.

It consists of a tight pinion securely fastened on one end of a sleeve, this sleeve having a thread inside of it, so that it can be secured on the lathe spindle in place of the ordinary face plate. There is also a loose pinion and a chuck adjustably secured to it, adapted to rotate on the sleeve of the tight pinion, and a large gear-wheel intermeshing with the tight pinion, and operating a rack pitman which intermeshes with the loose pinion, rotating the loose pinion and attached chuck back and forth.

In operation the crosshead is centered on the ordinary lathe centers, and secured in the chuck so that they rotate forward and back together. The cutting tool is an ordinary lathe tool, mounted in the lathe tool post, and operated by the lathe feed in the usual manner. At each forward movement of the crosshead the tool cuts about five-eighths of the distance around the pin, and when one side of the pin is turned the crosshead is reversed in the lathe, and the opposite side turned, completing the pin.

It is not necessary to remove the back gear of the lathe to attach this device, consequently the operator can use any desired speed. If he is turning a steel pin, and wishes to run the lathe slow, he can do so. We are informed that there are several of these machines in use, and that they are giving entire satisfaction, doing the work in about one-third the usual time.



ATTACHMENT FOR TURNING CROSS-HEAD PINS.

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